

Form PTO-1449

INFORMATION DISCLOSURE IN AN APPLICATION

(Use several sheets if necessary)

Declarant Number (Optional)

Applicant Number

08/835,419

Applicant

Fraas et al..

Filing Date

April 9, 1997

Group Art Unit

1313

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
GMM	4 7 2 2 7 6 8	2/1988	Schirmacher et al.	—	—	
GMM	4 7 8 4 6 0 3	11/1988	Robak, Jr. et al.	—	—	
GMM	5 5 4 7 5 4 9	8/1996	Fraas	—	—	
GMM	5 4 9 6 4 6 5	3/1996	Fraas	—	—	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

GMM	1	Falkenberry et al., "Coal Pyrolysis - A DOE Perspective," PROCEEDINGS OF THE EPRI CONFERENCE, (U.S.A. 1981).
GMM	2	Fraas, "Engineering Evaluation of Energy Systems," McGraw-Hill Book Co. pp. 121-125, (U.S.A.).
GMM	3	Carpenter, "Reaction Dynamics in Organic Chemistry," AMERICAN SCIENTIST, Vol. 85, pp. 138-149, March/April 1997 (U.S.A.).

EXAMINER

T. M. Mahon

DATE CONSIDERED

1/12/98

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Doctor Number (Optional)

Abstract

835.419

Appendix

Fraas et al.

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Group Art Unit

1312

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

4	Encyclopedia Britannica, "Coke, Coking and High Temperature ...". Vol. 5, p. 982, 1950 (U.S.A.).
5	Lichty, "Internal Combustion Engines", McGraw-Hill Book Co., pp. 40-47. (U.S.A.).
6	Tsonopoulos et al., "Thermodynamic and Transport Properties ...", John Wiley & Sons, Chapter 10 (U.S.A.).

EXAMINER

T. Mc Mahon

DATE CONSIDERED _____

2/12/98

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[illegible][illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)	
Gamm	7 "Doss, "Physical Constants of the Principal Hydrocarbons", The Texas Co., pp. 75-89 (U.S.A.).
Gamm	8 "Squires, "Reaction Paths" in Donor ...", APPLIED ENERGY, Vol. 4, 1978.
Gamm	9 "Howard et.al., "Coal Devolatilization for Reactor...", M.I.T., April 1981.

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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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|-----|--|
| 10. | Hessley et al., "Coal Science ...", John Wiley & Sons, pp. 91-163, (U.S.A.). |
| 11. | Frederick et al., "Role of the Liquids from Coal ...". ENCOAL Corp. (U.S.A.). |
| 12. | Howard, "Coal Pyrolysis -- Product Yields and Properties: Survey", PROCEEDINGS OF THE EPRI CONFERENCE, 1981 (U.S.A.) |

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Sheet 5 of 5

Deed Number (Optional)

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Group Art Unit

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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
13	Graves et al., "Diesel Fuels from Minimally Processed ...", Oak Ridge National Laboratory, DOE Contract DE-AC05-84OR21400 (U.S.A.).

EXAMINER

T. McMath

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